

Meeting Minutes

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Meeting:	IEEE GC 2021 TCSN Meeting
TC Chair:	Damla Turgut
TC Vice-Chair:	De-Nian Yang
TC Secretary:	Burak Kantarci
Meeting Recorder:	Burak Kantarci
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17 November 2021 – Virtual

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Virtual Meeting	11/17/2021 1 pm EST	11/17/2021 2 pm EST

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Purpose of Meeting

Annual meeting of the IEEE Social Networks Technical Committee (TCSN) which took place in the context of IEEE Globecom 2021 (virtually).

Agenda

Item	Topic
1.	Welcome and Introduction
2.	Approval of the Agenda
3.	Approval of Meeting Minutes IEEE ICC 2021 (online)
4.	Scope of TCSN
5.	TCSN members and recognitions
6.	TCSN Status
7.	Journal Activities
8.	Volunteers for the SAC tracks in GCs and ICCs
9.	Newsletter
10.	Special Interest Groups (SIGs)
11.	Awards & IEEE ComSoc Student Competition
12	Other Business/Adjournment

List of Participants

Name	Affiliation
Abd-Elhamid M. Taha	Alfaisal University, KSA
Abderrahim Benslimane	Avignon University, France
Ahmed Omara	University of Ottawa, Canada
Aldri Santos	University of Minas Gerais, Brazil
Anna Maria Vegni	Roma Tre University, Italy
Barbara Guidi	University of Pisa, Italy
Burak Kantarci	University of Ottawa, Canada
Charalampos Patrikakis	University of West Attica, Greece
Cyn Sikora	IEEE ComSoc Industry Outreach & Technical Activities Director, USA
Damla Turgut	University of Central Florida, USA
De-Nian Yang	Academia Sinica, Taiwan
Didem Cicek	University of Ottawa, Canada
Eirini Eleni Tsiropoulou	University of New Mexico, USA
Frank Li	University of Agder, Norway
Jinxin Liu	University of Ottawa, Canada
Melike Erol-Kantarci	University of Ottawa, Canada
Murat Simsek	University of Ottawa, Canada
Neeli Prasad	Trusted Mobi, "VehicleAvatar Inc", USA
Symeon Papavassiliou	National Technical University of Athens, Greece
Valeria Loscri	Inria Lille, Nord Europe, France
Vincent Chan	MIT, USA

Meeting Minutes

1. Welcome and Introduction

Damla Turgut (TCSN chair) opened the meeting and welcomed the participants. The meeting was held online due to the COVID-19 situation. Vincent Chan (ComSoc President) attended the meeting.

2. Approval of the Agenda

The agenda was presented to the attendees and approved.

3. Approval of Meeting Minutes IEEE ICC 2021 (held online)

The committee unanimously approved the minutes of the last TCSN meeting at IEEE ICC 2021. The minutes are also available online at the TCSN website.

4. TCSN Scope

Damla explained the TCSN scope and domains of interest, as well as members' involvement. She explained the nomination procedure for TC members to participate in conferences, endorsements, member elevation, and a nomination for distinguished lecturer appointments.

5. TCSN Members and Recognitions

Damla explained the definition of TC membership according to TCSN P&Ps: any ComSoc member who has been active in the TC activities for the past three years, can be a member of the TCSN. It is also necessary to subscribe to the TCSN mailing list. Accordingly, a TC member shall attend (physically present or by teleconference) three or more of the prior six regular scheduled TC meetings for the past three years, cast informed votes on TC business, and be encouraged to assist in the conduct of TC business. Individuals who are not ComSoc members are also welcome to participate in TC activities; however, they cannot be named TC members but collaborators.

Recognitions of TCSN members since the last meeting have been introduced by the Chair.

Prof. Burak Kantarci, University of Ottawa, Canada: Steering Committee Member, IEEE BlackSeaCom [starting 2022]; Steering Committee Chair, IEEE CAMAD [starting 2022]

Prof. Damla Turgut, University of Central Florida, USA; Chair-Elect of the IEEE Technical Committee on Computer Communications (TCCC) (2022-2023); IEEE INFOCOM 2021 Distinguished TPC Member

Damla has also presented the invited talks, DL lectures, and panels that TCSN members have been involved. These include:

Prof. Damla Turgut, University of Central Florida

Invited Talk:

- “Humans, AI, and IoT”, at the IoT Connect Symposium, co-located with IEEE Canadian Conference of Electrical and Computer Engineering (CCECE 2020), September 17, 2021.

IEEE ComSoc Distinguished Lectures:

- “Physical and computational modeling of smart homes,” Hosts: IEEE Buffalo Section Chapter, Rochester Section Jt. Chapter, and Syracuse Section Jt. Chapter, November 4, 2021.
- “Communication, computation, and privacy trade-off in machine learning for smart environments,” Hosts: Atlanta Section, Sacramento Valley Section, New York Section, Central Texas Section, Jamaica Section, Buenaventura Section, November 15, 2021.

Prof. De-Nian Yang, Academia Sinica, Taiwan

- Optimizing Pandemic Containment for COVID-19 by Social Network Analysis, IEEE Asia-Pacific Network Operations and Management Symposium (APNOMS), September 2021 [DEP]

Prof. Burak Kantarci, University of Ottawa, Canada

- AI-Backed Security and Resilience for Cyber-Physical Systems, ACM Distinguished Lecture at Ryerson University, Canada 25 October 2021
- AI-Backed Security and Resilience for Cyber-Physical Systems, ACM Distinguished Lecture at Universidade Federal de Minas Gerais, Brazil, 19 August 2021
- Artificial Intelligence-Backed Security and Resilience for Cyber-Physical Systems, Sheffield University (Invited Talk)
- Adversarial Machine Learning-Driven Fake Task Anticipation in Mobile Crowdsensing Systems. IEEE Congress on Intelligent and Service-Oriented Systems Engineering (Invited Talk)
- Empowering Artificial Intelligence Against Adversarial Patterns in the IoT Sensing Systems. Workshop on Wireless Intelligent Secure Trustable Things: bringing IoT and AI together in IEEE 7th World Forum on Internet of Things (WF-IoT), June 2021 [Keynote]
- "AI-Backed Threat Modeling and Defense Strategies in IoT Sensing". IEEE International Workshop on Decentralized AI and Computing on IoT, July 2021 [Keynote]
- "The Role of Artificial Intelligence in Dependable Cyber-Physical Systems" IEEE Computer Society YP Global Congress, 23 October 2021 [Invited Talk]

6. TCSN Status

Damla presented the status of the TC. The mailing list currently has 938 subscribers. The website is active and up to date. Email address for interaction with members was provided along with subscription information. TCSN is also active in social media. Links to Twitter, LinkedIn, and Facebook were also provided.

7. Journal Activities

TCSN has been involved in organizing several special issues. These include:

IEEE Access SI Collaborative Intelligence for Internet of Vehicles (2021)

- Guest editors: Celimuge Wu, Soufiene Djahel, Damla Turgut, Sidi-Mohammed Senouci, Lei Zhong
- In the process of preparing the SI editorial (~25% acceptance rate)

IEEE Trans. on Green Communications and Networking SI Collaborative Intelligence for Green Internet of Things in the 6G Era

- Guest editors: Celimuge Wu, Kok-Lim Alvin Yau, Zonghua Zhang, Damla Turgut, Shiwen Mao
- Submission deadline: December 10, 2021
- Publication: June 2022

IEEE IT Professional (2021) SI Information Hygiene and the Fight against the Misinformation Infodemic

- Guest editors: George Loukas, Stephen J. Andriole, San Murugesan
- Publication: March 2022

IEEE Transactions on Computational Social Systems (2020-2021) SI Computational Social Systems for COVID-19 Emergency Management and Beyond

- Guest editors: De-Nian Yang, Damla Turgut, Neeli Prasad, etc.
- Publication: August 2021

IEEE Communications Magazine (2020-2021) SI Networking Technologies to Combat the COVID-19 Pandemic

- Guest editors: Valeria Loscrí, Anna Maria Vegni, De-Nian Yang
- Submission Deadline: 1 January 2021
- Publication: September 2021

IEEE Transactions on Network Science and Engineering (2020-2021) SI Healthcare Social Analytics

- Guest Editors: Ebrahim Bagheri, Fattane Zarrinkalam, Diana Inkpen, Daniel Dajun Zeng, and Christopher C. Yang
- Submission Deadline: 1 November 2021
- SI Computing and Networking for Cyber-Physical-Social Systems
- Guest editors: Hai Jiang (Lead), A. B. M. Shawkat Ali, Beniamino Di Martino, and Bernady O. Apduhan
- Final Accepted Manuscript Due: 15 July 2021

8. Volunteers for the SAC tracks in GCs and ICCs and other activities

Damla presented the volunteers of the TC for future conferences. These include:

- ICC 2022 Seoul: Rep: Abderrahim Benslimane
- GC 2022 Rio de Janeiro: Rep: Neeli Prasad
- ICC 2023 Rome: Rep: Rep: De-Nian Yang

Active TC members are sought for the SN track of the SAC symposium in ICC/Globecom. Damla has explained the goals and responsibilities of track chairs in future conferences: Update topics in CFP. Advertise the CFP on social media. Advertise the CFP to the authors of the previous symposiums. Advertise the CFP to the authors of previous ICCs and GCs. Regional mailing lists. Update TPC members in TCSN (we need to incentivize new people)

TCSN volunteers were also introduced. Current voluntary positions are as follows:

- Web: De-Nian Yang (Academia Sinica)
- Newsletters: Anna Maria Vegni [Twice a year at ICC and Globecom]
- Membership development: Eirini & Burak
- Awards Committee: TCSN will keep working on this. Diversity is a key objective when forming and running the awards committee.
- Industry liaison: Charalampos Patrikakis
- Liaison to ComSoc Standardization Board: Charalampos Patrikakis
- Prof. Vincent Chan mentioned that IEEE is collaborating with industry in Silicon Valley to discuss which topics should be standardized and how to do it.
- Liaisons to TSCBD: Shui Yu (University of Sidney)
- Marketing: Neeli Prasad and De-Nian Yang

9. Newsletter

The newsletter is published twice a year in ICC and Globecom. 7 Issues have been published so far. De-Nian, Neeli, and Damla were the editors in 5, 6, and 7. Contents of the latest newsletter were presented to the attendees and feedback was asked.

10. Special Interest Groups (SIGs)

TCSN calls for Special Interest Groups. Interested members should contact TCSN officers with a scope, proposed activities, and a liaison to other TCs. TCSN will support SIG activities by technically co-sponsoring workshops and conferences, promoting seminars and talks, and organizing special issues in journals.

There is a call for interest in liaison with other TCs. Interested members are encouraged to contact TCSN officers. The objective is to promote joint activities of interest, coordinate initiatives, and organize special issues in journals.

A new SIG was presented. **SloA SIG: Social Internet of Anything**

Sig Officers include Anna Maria Vegni (Chair), Valeria Loscri (Co-Chair) and Abderrahim Benslimane (Senior Advisor).

The Scope of SloA SIG is as follows: The Social Internet of Anything Special Interest Group (SloA SIG) of the IEEE Technical on Social Networks (SN) promotes research and development in emerging areas of social networking applied to communication networks, ranging from traditional IoT networks, including Internet of Vehicles, Internet of Flying devices, Internet of Medical devices, till Internet of People, where social features are relevant and exploitable for communication and networking purposes. Due to this huge application field, not limited to IoT,

and since social aspects can find applicability in different fields, we extend the definition of Social IoT to Social Internet of Anythings. In this context, we are aware that new threats can emerge and make the SloA more vulnerable to cyber-attacks. The SloA will focus on research activities on all these aspects. SloA SIG aims to provide a platform for researchers and practitioners from academia and industry to discuss relevant topics and exchange views on the important issues of SloA provisioning, social networking and connectivity, social community detection and prediction, social ties and hub nodes for communication networks, cross-layer design and inter-operability between communication networks and social networks. It will also assist the TCSN by organizing and supporting ComSoc-sponsored conferences and workshops, special issues and feature topics of relevant journals.

11. ComSoc Standardization

ComSoc standardization activities. ComSoc standards activities, including standards development and standardization programs development, are restricted to communications, networking, and related fields, as defined in the scope of the Society and the charters of its Technical Committees. A new proposal was presented in collaboration with TCIN (Periklis Chatzimisios as the contact person).

The proposal is ActivityPub extension (W3C Recommendation 23 January 2018): a decentralized social networking protocol providing a client to server API for creating, updating, and deleting content, as well as a federated server to server API for delivering notifications and content.

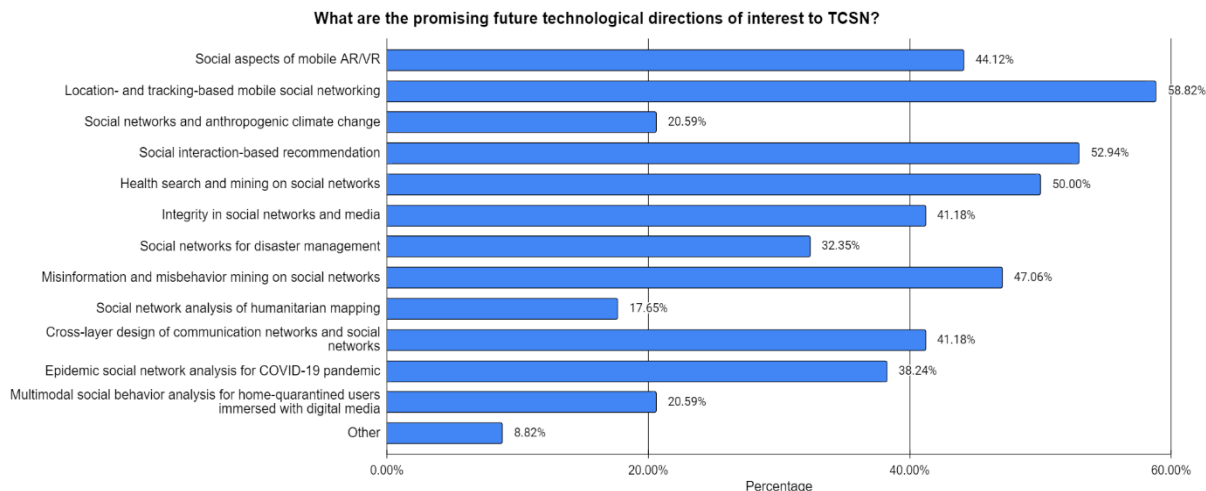
Standard to represent data of Social Media content and Social Networks in an interchangeable compatible way, avoiding vendor lock-in and allowing users to migrate seamlessly from one SN platform to another, thus giving users actual control over their data.

12. Awards

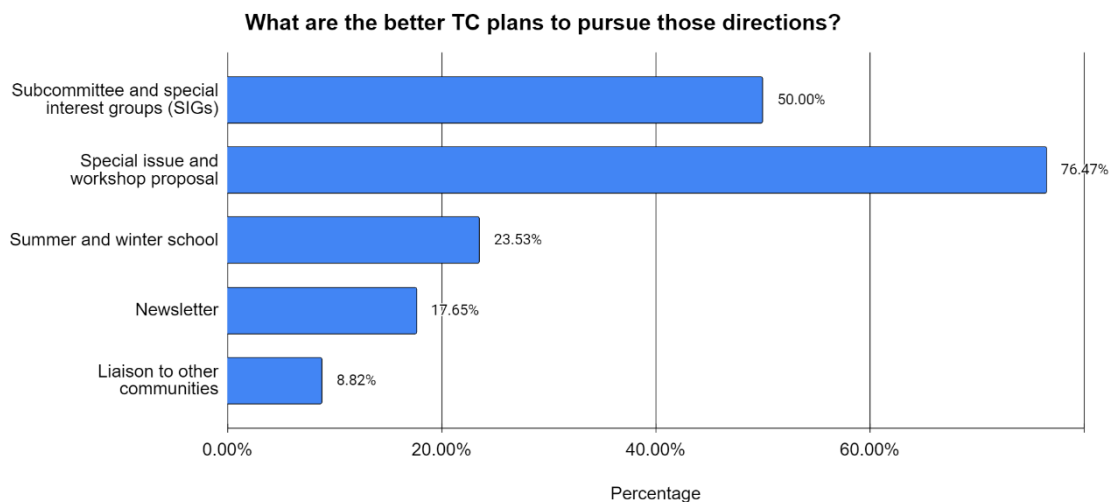
TCSN will form an awards committee and establish new awards. A new policy is going to be set accordingly along with an ad hoc subcommittee to announce the awards and select awardees.

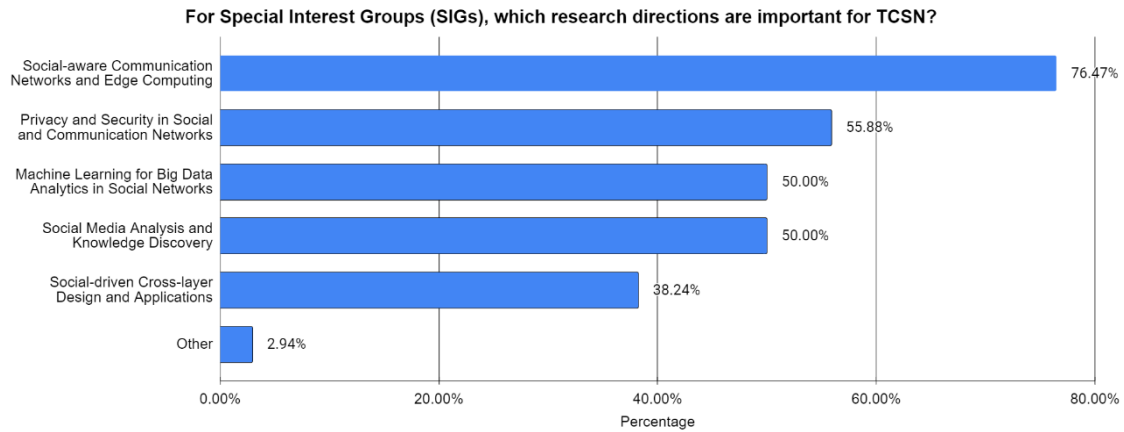
13. Other Business

De-Nian presented the results of a survey that was participated by TCSN members regarding TCSN's scope and future directions. The results are as follows:



Those who selected “Other” wrote in Human behavioral modeling in complex systems, Decentralization, interoperability, data portability, and the decentralization of social media.





Those who chose “Other” wrote in “The Decentralization of social media”

Open discussions were held. Based on the survey results, it was agreed that connection with other TCs would be beneficial to attract more participants.

Other discussions were pursued regarding the online seminar series and the possibility of summer or winter school.

The meeting was adjourned at 2 pm EST.